

Examiner's Copy

AN 127:164893 HCA
TI High strength nonrefined **steel** with low ductility
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PA Sumitomo Metal Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 09176786	A2	19970708	JP 1995-338650	19951226	
AB	The title steel contains C 0.20-1.20, Si .ltoreq.1.50, Mn 0.30-2.00, P .ltoreq.0.15, S .ltoreq.0.10, Cu .ltoreq.0.20, Ni .ltoreq.0.50, Cr 0.02-2.00, Mo .ltoreq.0.50, V .ltoreq.0.50, Nb .ltoreq.0.17, Ti .ltoreq.0.20, B .ltoreq.0.0100, Al .ltoreq.0.100, N .ltoreq.0.030, Pb .ltoreq.0.30, As .ltoreq.0.100, Sb .ltoreq.0.05, and Sn .ltoreq.0.05 wt.% satisfying fn1 .gtoreq.0.03 and fn2 .gtoreq.0 [fn1 = As + Sb + Sn, fn2 = C + Si/10 + Mn/5 + 5Cr/22 + 1.65V - 5S/7 - 0.8 (the element symbols represent wt.%)]. Automobile engine connecting rod and cap can be prepd. from the steel by integral forging and sepg. at room temp.					

0.2-1.2 C

≤ 1.5 Si

0.3-2 Mn

≤ 0.15 P

≤ 0.1 S

≤ 0.2 Cu

≤ 0.5 Ni

0.02-2 Cr

Te